(4) भारतीय सुदूर संवेदन उपग्रह (आई०आर०एस०): दो उपग्रह अर्थात् आई०आर०एस०। ई० और आई०आर०एस०पी० 2 निर्मित किए गए। आई०आर० एस०पी० 2 उपग्रह को पी०एस०एल०वी०डी० 2 राकेट द्वारा सफलतापूर्वक प्रमोचित किया गया।

(5) भारतीय राष्ट्रीय उपग्रह प्रणाली (इन्सैट): दो उपग्रह, इन्सैट-2ए और इन्सैट-2बी को क्रमशः जुलाई 10, 1992 और जुलाई 23, 1993 को सफलतापूर्वक प्रमोचित किया गया।

(ख) आगामी तीन वर्षों के लिए प्रमुख अन्तरिक्ष कार्यक्रम इस प्रकार हैं:

(1) ध्रुवीय उपग्रह प्रमोचक राकेट (पी०एस०एल०वी०) तीन प्रमोचन अर्थात् पी०एस०एल०वी०-डी० 3, पी०एस०एल०वी०-सी० 1 और पी०एस०एल०वी०-सी० 2 के क्रमशः 1995-96, 1996-97 और 1997-98 में आयोजित किए जाने की योजना है।

(2) भू-तुल्यकाली उपग्रह प्रमोचक राकेट (जी० एस०एल०वी०): प्रथम विकासात्मक उड़ान, जी०एस०एल०वी०डी० 1, 1997-98 के लिए निर्धारित है।

(3) भारतीय सुदूर संवेदन उपग्रह (आई०आर०एस०): दो उपग्रह अर्थात् आई०आर० एस०-1सी और आई०आर०एस०। डी० के क्रमशः 1995-96 और 1997-98 में प्रमोचन की योजना है तथा पी०एस०एल०वी० की उड़ानों द्वारा प्रमोचित किए जाने के लिए तीन उपग्रहों, आई०आर०एस०-पी० 3, आई०आर०एस०-पी० 4 और आई०आर०एस०-पी० 5 का निर्माण किया जायेगा।

(4) भारतीय राष्ट्रीय उपग्रह प्रणाली (इन्सैट): तीन उपग्रहों अर्थात् इन्सैट-2सी, इन्सैट-2 डी, और इन्सैट-2 ई० के क्रमशः 1995-96, 1996-97 और 1997-98 में प्रमोचन की योजना है।

(ग) भारतीय अन्तरिक्ष कार्यक्रम मुख्यतः आत्म-निर्भर है। लेकिन जब जब लाभकारी होता है, समय-अनुसूची और आर्थिक व्यवहार्यता पर विचार करते हुए प्रमोचन सेवाओं सहित कुछ हार्डवेयर, उपस्करों और पुर्जों को वाणिज्यिक आधार पर आयात किया जाता है।

Observations Made by Hubble Space Telescope

2828. SHRI SURINDER KUMAR SINGLA:
DR. SHRIKANT RAM-CHANDRA JICHKAR:

Will the PRIME MINISTER be pleased to state:

(a) whether the results of the observations made by the Hubble Space Telescope is being studied by any agency in India;

(b) if so, by whom, where and since when;

(c) what is the reaction of our scientists and astronomers to the observations of the Hubble Space Telescope; and

(d) in what manner best use of this information can be made for our country?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE AND MINISTER OF STATE IN THE DEPARTMENTS OF ATOMIC ENERGY AND SPACE AND MINISTER OF STATE IN THE MINISTRY OF SCIENCE & TECHNOLOGY (SHRI BHUVNESH CHATURVEDI): (a) Yes, Sir.

(b) Tata Institute of Fundamental Research (TIFR), Bombay, Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune, and Indian Institute of Astrophysics (IIA), Bangalore, are the three major Institutions using Hubble Space Telescope (HST) data in India for the last one year under collaborative arrangements with the Principal Investigators of the telescope facility.

(c) The HST is one of the most powerful astronomical space observatories ever built, surpassing capabilities of existing ground based telescopes. Indian scientists are following

up the developments in the field and studying the implications of new results being obtained by HST.

(d) The HST data made available to the Indian scientists will be utilised along with the observations of their own optical and infra-red telescope facilities. This way the Indian scientists would be able to make significant contributions to new research in astronomy and astrophysics.

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12 Noon

MR. CHAIRMAN: Papers to be laid on the Table— Shri Bhuvanesh Chaturvedi.

PAPERS LAID ON THE TABLE

I. Report and Accounts (1993-94) of the Nuclear Power Corporation of India, New Delhi and related papers

II. Report and Accounts (1993-94) of the Tata Institute of Fundamental Research, Bombay and related papers

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE AND THE MINISTER OF STATE IN THE DEPARTMENTS OF ATOMIC ENERGY AND SPACE AND THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI BHUVNESH CHATURVEDI): Sir I lay on the Table:—

I.(1) A copy each (in English and Hindi) of the following papers, under sub-section (1) of section 619A of the Companies Act, 1956:—

(i) Annual Report and Accounts of the Nuclear Power Corporation of India Limited, New Delhi, for the year 1993-94, together with the Auditors' Report on the Accounts and the comments of the Comptroller and Auditor General of India thereon.

(ii) Statement by Government accepting the above Report.

(2) Statement (in English and Hindi) giving reasons for the delay in laying the papers mentioned at (1) above.

[Placed in Library. *See* No. LT-7299/95]

II. A copy each (in English and Hindi) of the following papers:—

(i) Annual Report and Accounts of the Tata Institute of Fundamental Research, Bombay for the year 1993-94, together with the Audit Report on the Accounts.

(ii) Statement by Government accepting the above Report.

(iii) Statement giving reasons for the delay in laying the papers mentioned at (i) above.

[Placed in Library. *See* No. LT. 73000/95]

[THE VICE-CHAIRMAN, Shri V. Narayanasamy, in the chair]

SHRI SARADA MOHANTY (Orissa): Sir, I am on a point of order.

THE VICE-CHAIRMAN (SHRI V. NARAYANASAMY): On which subject?

SHRI SARADA MOHANTY: On the Papers to be laid on the Table.

THE VICE-CHAIRMAN (SHRI V. NARAYANASAMY): You have to specifically mention the item on which you want to raise it.

SHRI SARADA MOHANTY: On every item. This is above procedure.

THE VICE-CHAIRMAN (SHRI V. NARAYANASAMY): Okay.

SHRI SARADA MOHANTY: Sir, I may be permitted to refer to two paragraphs—26 and 27— of the First Report of the Committee on Papers Laid on the Table.